

To: Way, Steven[way.steven@epa.gov]
From: Rob Runkel
Sent: Mon 11/16/2015 9:13:30 PM
Subject: Re: USGS Technical Support - Red ad Bonita Mine / Upper Animas Interagency Tasking
[scope.pdf](#)

Steve - welcome back - hope you got a chance to get away from it all. I've done some reading but haven't progressed too far. I'm headed to our headquarters in Reston tomorrow and will leave from there for thanksgiving in Minnesota. I can do some work this week and while in Minnesota, but my total time on this prior to Dec 2 is unlikely to exceed 30 hours. So the 80 hours will be more than needed initially. there's of course the possibility of follow up work after Dec 2, and other tasks related to R&B and/or Gold King and/or the Animas in general.

A couple options:

- just go w/ 40 hours and restrict the work to what happens between now and Dec 2. w/ a little slop in there in case it goes longer/I find more time.

-- put the 80 hours in there and I can use it to address your needs over the course of the year. Money could also be carried forward into FY17 if the need isn't there. If you go that route you could steal some of the objectives and scope from our agreement w/ Kerry/Paul about general technical assistance. Its some generic text - see attached file. This option would be my preference.

Sorry I haven't had more time to look at this -- I'll see what I can do. - Rob

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On Mon, 16 Nov 2015, Way, Steven wrote:

> Hi folks,
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> As discussed with this morning, the following scope of work is being requested of USGS in support of the evaluation / recommendation regarding the proposed bulkhead valve closure at the Red and Bonita mine.

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> 1. Perform a review of specific hydrogeological and underground mine system information needed to provide recommendations regarding the proposed closing of the valve in newly installed bulkhead. This information includes existing information from DRMS, EPA and USGS regarding various mines in the Upper Cement Creek drainage and historic water quality data developed by EPA (START and ESAT) or

USGS.

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> 2. The deliverable will include participating in technical meetings, and providing written summary of the recommendations and basis in a technical memo to EPA by December 2. The evaluation is to address proposed monitoring to assess the effects of closing the valve, potential water quality changes and potential negative consequences.

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> 3. The level of effort for this task is estimated to be 80 hours +/-.

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> Let me know if you have any questions.

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> Thanks,

> Steve

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> Sent from my iPad